	Application No.	Applicant(s)
Notice of Allowability	10/696,070	HONG, SUNG KWON
	Examiner	Art Unit
	Phuong Phu	2611
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical GHTS. This application is subjection	s application. If not included
1. This communication is responsive to the Amendment filed	<u>on 8/21/07</u> .	
2. The allowed claim(s) is/are <u>1-3,6-13 and 16-19</u> .		
 Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Thernational Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application Notember to the currents have been received in the communication to file a re	o this national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be submining. INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINes reason(s) why the oath or dec	NER'S AMENDMENT or NOTICE OF claration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) \square including changes required by the Notice of Draftspers		TO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	ne Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the dr	rawings in the front (not the back) of 121(d).
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	5. Notice of Inform	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ∐ Interview Summ Paper No./Mail	6. Interview Summary (PTO-413), Paper No./Mail Date
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Ame	endment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🛛 Examiner's State	ement of Reasons for Allowance
	9.	
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DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 8/21/07. Accordingly, claims 1-3, 6-13 and 16-19 are currently pending; and claims 4, 5, 14 and 15 are canceled.

REASONS FOR ALLOWANCE

- 2. Claims 1-3, 6-13 and 16-19 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

-Regarding independent claim 1, none of prior art of record teaches or suggests a DTX bit processing method, as claimed. Takano et al teaches the claimed method except he fails to teach a procedure of mapping a symbol to a predetermined mapping point to an origin of an IQ plane when at least one bit of the symbol is a DTX bit. In Takano et al, when at least one bit of a symbol is a DTX bit, the symbol is mapped to a point in a predetermined region around, but not including the origin of the IQ plane. It would not have been obvious for one skilled in the art to implement Takano et al in view of other prior art for leading such the implementation to the claimed invention.

-Regarding independent claim 10, none of prior art of record teaches or suggests a transmitter, as claimed. Willengger in view of Takano et al teach the claimed transmitter except they fail to teach that the transmitter comprises a procedure of mapping a symbol to a predetermined mapping point to an origin of an IQ plane when at least one bit of the symbol is a DTX bit. In Willengger in view of Takano et al, when at least one bit of a symbol is a DTX bit, the symbol is mapped to a point in a predetermined region around, but not including the origin of the IQ plane. It would not have been obvious for one skilled in the art to implement either one

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or combination of Willengger and Takano et al in view of other prior art for leading such the implementation to the claimed invention.

-Regarding independent claim 11, none of prior art of record teaches or suggests a DTX bit processing system, as claimed. Takano et al teaches the claimed system except he fails to teach means of mapping a symbol to a predetermined mapping point to an origin of an IQ plane when at least one bit of the symbol is a DTX bit. In Takano et al, when at least one bit of a symbol is a DTX bit, the symbol is mapped to a point in a predetermined region around, but not including the origin of the IQ plane. It would not have been obvious for one skilled in the art to implement Takano et al in view of other prior art for leading such the implementation to the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

hu

PHUONG PHU
PRIMARY EXAMINER

Phuong Phu 09/08/07 Phuong Phu Primary Examiner Art Unit 2611